

First named inventor: Claramunt
Serial no. 10/607,873
Filed 6/28/2003
Attorney docket no. 200206606-1

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Listing of claims

1. (original) A method comprising:
advancing media; and,
marking the media as the media advances to allow for one-dimensional optical sensing of advancement of the media while accommodating for lateral movement of the media.
2. (original) The method of claim 1, wherein marking the media as the media advances comprises marking the media with a mark size matching a field of view of an optical sensor used in the one-dimensional optical sensing of the advancement of the media that allows for the one-dimensional optical sensing of the advancement of the media while accommodating for the lateral movement of the media.
3. (original) The method of claim 1, wherein marking the media as the media advances comprises, as the media advances in a first direction, marking an irregular pattern on the media over a plurality of tracks in a second direction perpendicular to the first direction.
4. (original) The method of claim 3, wherein marking the irregular pattern on the media the plurality of times in the second direction comprises marking the irregular pattern on the media over two tracks in the second direction.
5. (original) The method of claim 3, wherein marking the irregular pattern on the media comprises marking a plurality of valleys followed by a space devoid of a valley on the media as the media advances.

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6. (original) The method of claim 1, wherein marking the media as the media advances comprises two-dimensionally roughening the media as the media advances.
7. (original) The method of claim 6, wherein two-dimensionally roughening the media as the media advances comprises roughening the media across a width of the media.
8. (original) The method of claim 6, wherein two-dimensionally roughening the media as the media advances comprises roughening the media across less than a width of the media.
9. (withdrawn) A marking wheel for an optical media advancement sensor comprising:
a cylinder having an outer surface to contact media as the cylinder rotates and as the media moves relative to the cylinder; and,
a marking geometry on the outer surface of the cylinder having an irregular pattern repeated over the outer surface in a first direction around the cylinder over a plurality of tracks in a second direction perpendicular to the first direction.
10. (withdrawn) The marking wheel of claim 9, wherein the irregular pattern has a size matching a field of view of the optical media advancement sensor.
11. (withdrawn) The marking wheel of claim 9, wherein the irregular pattern is repeated over the outer surface completely around the outer surface in the first direction.
12. (withdrawn) The marking wheel of claim 9, wherein the irregular pattern is repeated over the outer surface over two tracks in the second direction.

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13. (withdrawn) The marking wheel of claim 9, wherein the irregular pattern comprises a plurality of peaks and an area devoid of a peak.

14. (withdrawn) The marking wheel of claim 13, wherein the irregular pattern comprises three peaks and the area devoid of a peak.

15. (withdrawn) A marking wheel for an optical media advancement sensor comprising:
a cylinder having an outer surface to contact media as the cylinder rotates and as the media moves relative to the cylinder; and,
means for marking the media disposed on the outer surface of the cylinder and to allow for one-dimensional optical sensing of advancement of the media while accommodating for lateral movement of the media.

16. (withdrawn) The marking wheel of claim 15, wherein the means comprises a marking geometry on the outer surface of the cylinder having an irregular pattern repeated over the outer surface in a first direction around the cylinder and over a plurality of tracks in a second direction perpendicular to the first direction.

17. (withdrawn) A method for manufacturing a marking wheel for an optical media advancement sensor comprising:
fashioning an irregular pattern repeatedly around an outer surface of a cylinder; and,
fashioning one or more grooves into the irregular pattern around the outer surface of the cylinder in a direction around the cylinder.

18. (withdrawn) The method of claim 17, further comprising plating the outer surface of the cylinder.

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19. (withdrawn) The method of claim 17, wherein fashioning the irregular pattern repeatedly around the outer surface of the cylinder comprises broaching the irregular pattern repeatedly around the outer surface of the cylinder.

20. (withdrawn) The method of claim 17, wherein fashioning the one or more grooves into the irregular pattern around the outer surface of the cylinder in the direction around the cylinder comprises turning the one or more grooves into the irregular pattern around the outer surface of the cylinder in the direction around the cylinder.

21. (withdrawn) An image-forming device comprising:
an image-forming mechanism;
a media-advance mechanism to advance media through the image-forming mechanism;
a marking mechanism to mark the media as the media is advanced through the image-forming mechanism; and,
a one-dimensional optical media-advancement sensor to measure advancement of the media based on markings on the media made by the marking mechanism,
the markings allowing for measurement of advancement of the media by the sensor in presence of lateral movement of the media.

22. (withdrawn) The image-forming device of claim 21, wherein the marking mechanism comprises a cylinder having an outer surface to contact the media as the cylinder rotates and as the media advances, the outer surface having a marking geometry with an irregular pattern repeated over the outer surface in a first direction around the cylinder and over a plurality of tracks in a second direction perpendicular to the first direction.

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23. (withdrawn) The image-forming device of claim 21, wherein the markings are sized to match a field of view of the optical media advancement sensor.